



Question 1

Answer saved
Marked out of 2.00

A formal specification of the system may be developed and mathematically analysed for.....?

- a. Inconsistency
- b. System Development
- c. System errors
- d. Consistency

Clear my choice

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Question 2

Not yet answered
Marked out of 2.00

Availability is the probability of failure-free operation over a specified time, in a given environment, for a specific purpose?

Select one:

True

False

[Clear my choice](#)

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Question 3

Not yet answered
Marked out of 2.00

Reliability is the probability that a system, at a point in time, will be operational and able to deliver the requested services?

Select one:

True

False

[Clear my choice](#)

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Question 4

Not yet answered
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Refactoring which is making program changes to preserve a system functionality is a form of Maintenance to repair software faults?

Select one:

True

False

[Clear my choice](#)

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Question 5

Not yet answered
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A backup mechanism exploits on reusable components in its design?

Select one:

True

False

[Clear my choice](#)

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Question 6

Not yet answered
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Testing is part of a broader process of Software verification and validation.

Select one:

True



False

[Clear my choice](#)

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Question 7

Not yet answered
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The aim of Software validation is to ensure that the software meets the customer needs.

Select one:

True



False

[Clear my choice](#)

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Question 8

Not yet answered
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Negotiating the test results is one of the stages in the acceptance testing process.

Select one:

True



False

**Clear my choice**

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Question 9

Not yet answered
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Skills shortage can be regarded as one of the problems of maintaining business legacy systems?

Select one:

True



False

[Clear my choice](#)

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Question 10

Answer saved

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Re-processing is a process of making improvement to a program to slow down degradation.

Select one:

True



False

[Clear my choice](#)

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Question 11

Answer saved

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Probability of failure on demand (POFOD), Rate of occurrence of failures (ROCOF), Availability (AVAIL) are three metrics used to specify reliability and availability of a system?

Select one:

True



False

Clear my choice

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Question 12

Not yet answered

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A graphical workflow language, such as BPMN, may be used to describe a business process and the.....used in the process?

a. Approach b. Technique c. Service d. Style Clear my choice

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Question 13

Not yet answered
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A hazard is a system state that could be lead to.....?

a. System crush

b. Damage

c. System failure

d. Accident

Clear my choice

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Question 14

Not yet answered
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Application systems reuse is concerned with the..... of large-scale, off the shelf systems?

a. Re-use b. Re-scaling c. Re-development d. Re-producing

Clear my choice



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Question 15

Not yet answered

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EPR systems usually requires extensive configuration to adapt them to the requirements of each organization where they are.....?

a. Captured

b. Processed

c. Installed

d. Used

Clear my choice

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Question 16

Not yet answered
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ERP systems are used in almost all large companies to support some or all of their.....?

- a. Process
- b. Functions
- c. Return on investment
- d. Concepts

Clear my choice

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Question 17

Not yet answered
Marked out of 2.00

Hazard analysis is the process of discovering the root causes of hazard in a system?

- a. Agile critical
- b. Error-free
- c. Risk-free
- d. Safety-critical

Clear my choice

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Question 18

Not yet answered
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Model checking is a formal approach to analysis that exhaustively checks all states in a system for potential errors.

- a. Business
- b. Dynamic
- c. Static
- d. Systems

Clear my choice

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Question 19

Not yet answered

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REST is an architectural style based on transferring representations of resources from a server

a. Central database

b. Cloud

c. Relational database

d. Client

Clear my choice



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Question 20

Not yet answered
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Safety-critical system are systems in which it is essential that the system operations is always.....?

a. Secure

b. Safe

c. Hazard

d. Critical

Clear my choice



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Question 21

Not yet answered
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Safety-critical systems are systems whose failures can lead to human.....?

- a. Delay
- b. Success
- c. Injury
- d. Advancement

Clear my choice

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Question 22

Not yet answered
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Service-oriented system have loosely couple architecture where service binding may change during systems.....?

a. Maintenance b. Execution c. Testing d. Development

Clear my choice



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Question 23

Not yet answered
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Services may be implemented within a service-oriented architecture using a set of.....web services standards?

a. HTTP b. XML-based c. JavaScript d. Apache

Clear my choice



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Question 24

Not yet answered
Marked out of 2.00

Sociotechnical systems are so complex that it is impossible to understand them as a.....?

- a. Stack
- b. Whole
- c. Layers
- d. Holistic approach

[Clear my choice](#)

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Question 25

Not yet answered
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Static analysis is effective in finding errors in programs but, commonly, generates a larger number of false.....?

a. Computations b. Positives c. Alarms d. Narration Clear my choice

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Question 26

Not yet answered
Marked out of 2.00

Strategies to achieve and enhance dependability of a system rely on both redundancy and?

- a. Capacity
- b. Scalability
- c. Diversity
- d. System tuning

Clear my choice

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Question 27

Not yet answered
Marked out of 2.00

System dependability is important because..... of the critical system can lead to large economic losses, serious information loss, physical damage or threats to human life.

a. Sustainability

b. Success

c. Failure

d. Running

Clear my choice



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Question 28

Not yet answered
Marked out of 2.00

System development is a complex process in which the elements that are part of the system are developed or purchased and then integrated to create the..... systems?

a. Agile

b. Partial

c. Final

d. Computer-based

Clear my choice



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Question 29

Not yet answered
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System development processes include requirements specification, design, construction, integrating and.....?

a. Documenting

b. Testing

c. Error-identifying

d. Developing

Clear my choice



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Question 30

Not yet answered
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System engineering includes everything to do with procuring, specifying, development, deploying, operating and maintaining both technical and..... System?

a. Sociotechnical b. Computer-based c. Technical d. Critical

Clear my choice



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Question 31

Not yet answered
Marked out of 2.00

Systems may be developed by configuring a single, generic application systems or by integrating two or more systems

a. Agile



b. Application



c. Redundant



d. User



Clear my choice



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Question 32

Not yet answered
Marked out of 2.00

The dependability of a computer system is a property of the system that reflects its.....?

- a. Reliability
- b. Resilience
- c. Vulnerability
- d. Trustworthiness

[Clear my choice](#)[Previous](#)[Next >](#)

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Question 33

Not yet answered
Marked out of 2.00

The dependability of a computer system is a system property that reflects the user's degree of in the system.

a. Functionality

b. Maintainability

c. Workability

d. Trust

Clear my choice

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Question 34

Not yet answered
Marked out of 2.00

The emergent properties of a system are characteristics of the system as a whole rather than of its.....?

a. System dependencies b. Component parts c. System procurement d. Risk of change Clear my choice

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Question 35

Not yet answered
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The fundamental elements in a RESTful architecture is a?

a. Attributes



b. Resources



c. Inputs



d. Outputs



Clear my choice



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Question 36

Not yet answered
Marked out of 2.00

The need for assurance in safety-critical systems has been one of the principal drivers, the development of.....?

a. Enterprise Architecture

b. Software

c. Distributed methods

d. Formal methods

Clear my choice

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Question 37

Not yet answered
Marked out of 2.00

The regulations and the compliance of the system applies to the sociotechnical system as a whole and not simply the software element of the.....?

a. Architecture design

b. System

c. Rules and policies

d. Software process

[Clear my choice](#)

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Question 38

Not yet answered
Marked out of 2.00

The reused-based software engineering is an approach to development that tries to..... the reuse of existing software?

a. Minimise

b. Maximise

c. Redefine

d. Re-arrange

Clear my choice

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Question 39

Not yet answered
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The service engineering process involves identifying candidates services for.....?

a. Implementation of services

b. Composition of services

c. Tuning of services

d. Configuration of services

Clear my choice



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Question 40

Not yet answered
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The starting point for generating functional safety requirements is usually domain knowledge, safety standards, and?

a. Process

b. Regulations

c. Procedures

d. Reactive

Clear my choice



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Question 41

Not yet answered
Marked out of 2.00

The UDDI (Universal Description, Discovery and integration) discovery standard defines the components of a service specification intended to help potential users discover the existing of.....?

a. Service b. Protocol c. Software d. Application

Clear my choice



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Question 42

Not yet answered
Marked out of 2.00

When a system is put into use, the operational processes and the system itself inevitably change to reflect changes to the business requirements and the environment.

- a. Desktop
- b. Application
- c. User
- d. Systems

Clear my choice

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Question 43

Not yet answered
Marked out of 2.00

Which of the following attributes doesn't from part of the dependency processes of dependable software?

- a. Audible
- b. Reusable
- c. Documentable
- d. Diverse

Clear my choice

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Question 44

Not yet answered

Marked out of 2.00

Which of the following below reason is true about the dependability of the systems been more important than their functionality?

- a. The data processed by the system may be maintained in different files
- b. The program style and the usage conventions are inconsistent.
- c. System failure costs may be enormous
- d. Many years maintenance usually degrades the system structure, making it increasingly



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Question 45

Not yet answered
Marked out of 2.00

Which of the following doesn't form part of the factors that influence system lifetimes span?

- a. Replacement cost
- b. Investment cost
- c. System procumbent costs
- d. Loss of expertise

Clear my choice

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**Question 46****Answer saved****Marked out of 2.00**

Which of the following doesn't form part or key factors that one should consider when planning re-use?

- a. The expected software lifetime
- b. The development schedule for the software
- c. The background, skills and experience of the development
- d. Object and function re-use software component that implement a single function

[Clear my choice](#)

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Question 47

Not yet answered
Marked out of 2.00

Which one of the following does not part of the five principles dimensions to dependability?

a. Maintainability

b. Availability informally

c. Safety informally

d. Reliability informally

[Clear my choice](#)

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Question 48

Not yet answered

Marked out of 2.00

Which one of the following doesn't form part of the four-overlapping stage in the lifetime of larger complex systems?

- a. Operations
- b. Maintenance
- c. Procurement
- d. Development

[Clear my choice](#)[Previous](#)[Next](#)

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Question 49

Not yet answered
Marked out of 2.00

Which one of the following falls amongst the benefits of software re-use?

- a. "not-invented-here" syndrome
- b. Lack of tool support
- c. Increase maintenance costs
- d. Reduced process risk

Clear my choice

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Question 50

Not yet answered
Marked out of 2.00XML-based service description includes
definitions of XML.....?

- a. Syntax
- b. Elements
- c. Namespaces
- d. Special characters

[Clear my choice](#)

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